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| Balandin, A. A., Marukyan, G. M., and Seimovich, R. G.<br>CATALYTIC DEHYDROGENATION OF p-CYMENE.<br>[1961] 4p, 15 ref.<br>Order from CTS or SLA \$1.10  | 61-16920<br>I. Balandin, A. A.<br>II. Marukyan, G. M.<br>III. Seimovich, R. G. |
| Trans. of Akademiya Nauk SSSR. Comptes Rendus (Vidensk. Akad. SSSR) de l'Academie des Sciences de l'U. R. S. S., 1962, v. 41, p. 71-73.   | 101471;  |
| DESCRIPTORS: "Cymene, Dehydrogenation, Catalysts."<br>Introduction of two methyl groups into the molecule of ethylbenzene, one attached to the ring and the other placed in the side chain in $\alpha$ -position, facilitates dehydrogenation. (Author) | Office of Technical Services   |
| (Chemistry--Organic, TT, v. 6, no. 7)   |  |

Selection of a New Standard of Length, by  
L. B. Ponizovskiy, *Зар.*

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLI, No 4,  
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\*ACSI I-8298  
ID 2224778

Sci - Engr  
27 Feb 63

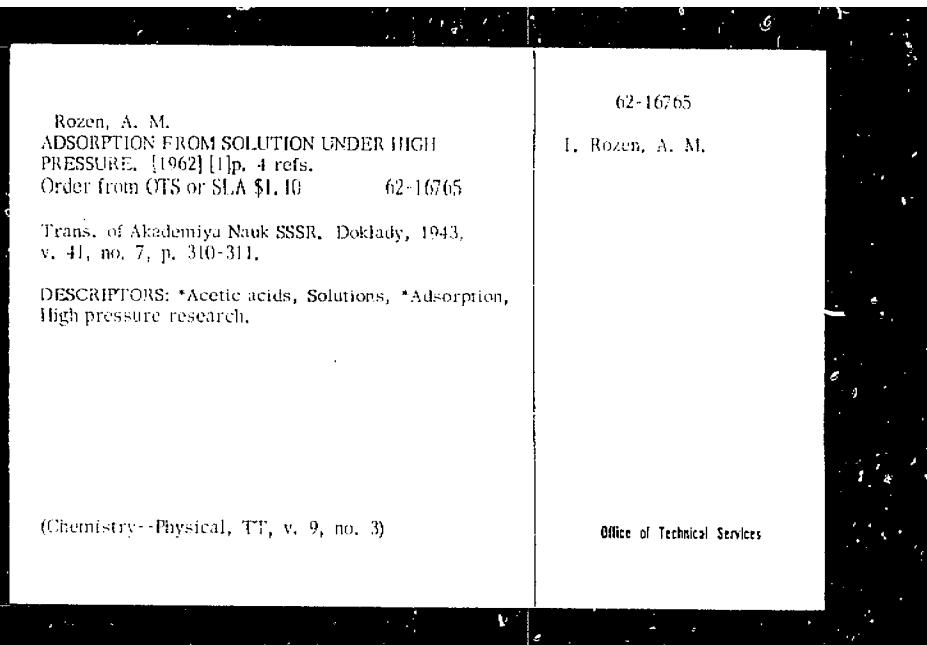
A Contribution to the Theory of Long Waves,  
by M. A. Lavrent'ev , 3 pp.

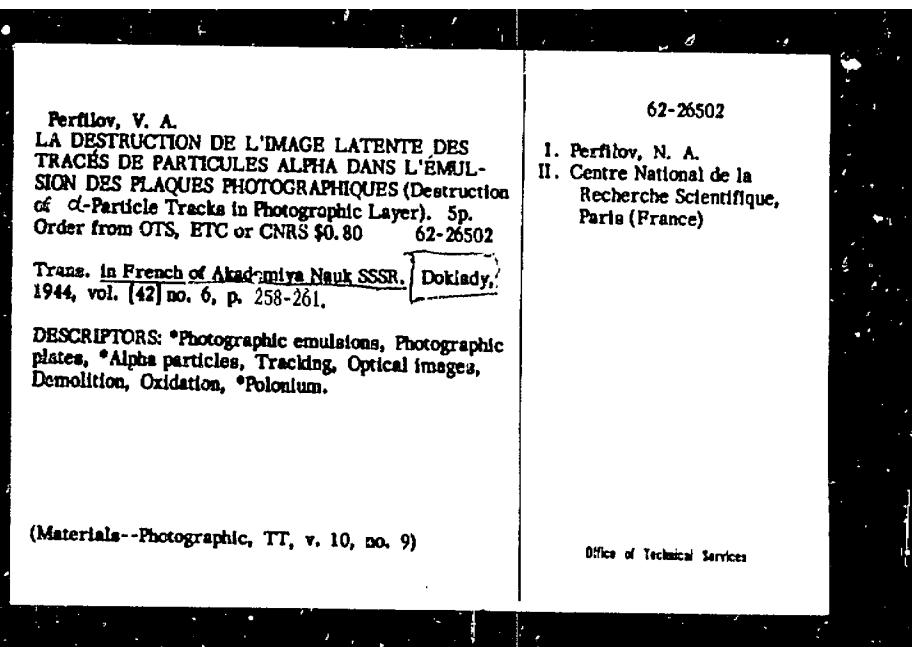
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1943, pp 275-277.

AMER Math Soc No 102, Pt 2  
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Scientific - Physics  
Nov 1954 CIS

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Sound Propagation in a Turbulent Atmosphere,  
by V. Krasil'nikov.  
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVII, No 7,  
1945, pp 486-489.  
NASA TT F-9062

Sci-Ear Sci & Astron  
Oct 64  
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(NY-4841)

Results of Measuring the ~~Electron~~ Detonation Velocity  
of Methyl Nitrate, by S. S. Ratner, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLII, No 6,  
1944, pp 276-278.

JPRS 7313

Sci - Chem

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Electronic Instruments With Effective Emitters of  
Secondary Electrons, by R. N. Aranovich, 15 pp.

RUSSIAH, per, Dok Ak Nauk SSSR, Vol VIII, No 6,  
1944, pp 346-351.

SLA R-1111

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May 58

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(NY-4841)

Types of Kinetic Curves of Chain Reactions, by  
N. N. Semenov, 10 pp.

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1944, pp 360-366.

JPRS 7311

Sci - Chem

Jan 61

138,725

(NY-4841)

Calculations of the Lower Limit of Hydrogen  
Ignition as a Function of Temperatures From  
Spectroscopic Measurements of the Hydroxyl Group,  
by V. Kondrat'yey, 9 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIV, No 1,  
1944, pp 21-26.

JPRS 7312

Sci - Chem

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(PS-4841).

Types of Kinetic Curves of Chain Reactions. II.  
Calculating the Interaction of Active Particles,  
by N. N. Semenov, 12 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIV, No 2,  
1944, pp 68-73.

JPRS 7509

137,682

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Sci - Chem  
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| <p>Chel'tsova, M. A. and Petrov, A. D.<br/>ISOMERIZATION OF 1-HEXENE TO TETRAMETHYL-<br/>ETHYLENE. [1961] 3p. 12 refs.<br/>Order from OTS or SLA \$1.10</p>              | <p>61-18175<br/>I. Chel'tsova, M. A.<br/>II. Petrov, A. D.</p> |
| <p>Trans. of [Akademiya Nauk SSSR]. Comptes Rendus<br/>(Doklady) de l'Academie des Sciences de l'U.R.S.S.,<br/>1944, v. 44, p. 152-153.</p>                              |  |
| <p>DESCRIPTORS: *Cyclohexenes, Ethylenes, Methyl<br/>radicals, Molecular Isomerism.</p>  |  |
| <p>Isomerization of 1-hexene to tetramethylethylene was<br/>achieved at 375°C in the presence of zinc chloride on<br/>pumice promoted by hydrogen chloride. (Author)</p> |  |
| <p>(Chemistry--Organic, TT, v. 6, no. 7)</p>   | <p>Office of Technical Services</p>                            |

(NY-4841).

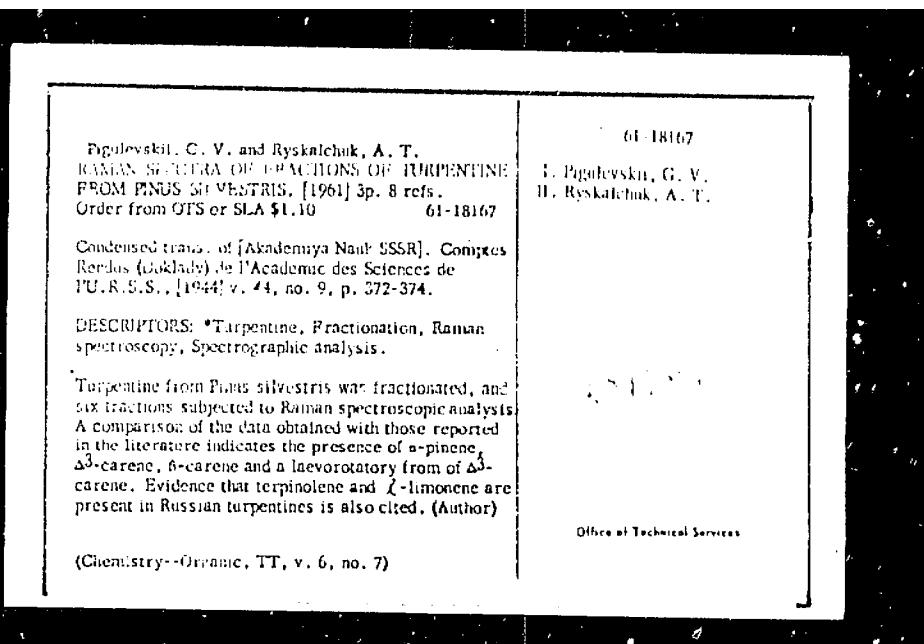
Types of Kinetic Curves of Chain Reactions, III.  
Calculating the Cleavage of Chains on the Walls of a  
Container Using the Oxidation of Hydrogen as an  
Example, by N. N. Semenov, 10 pp.

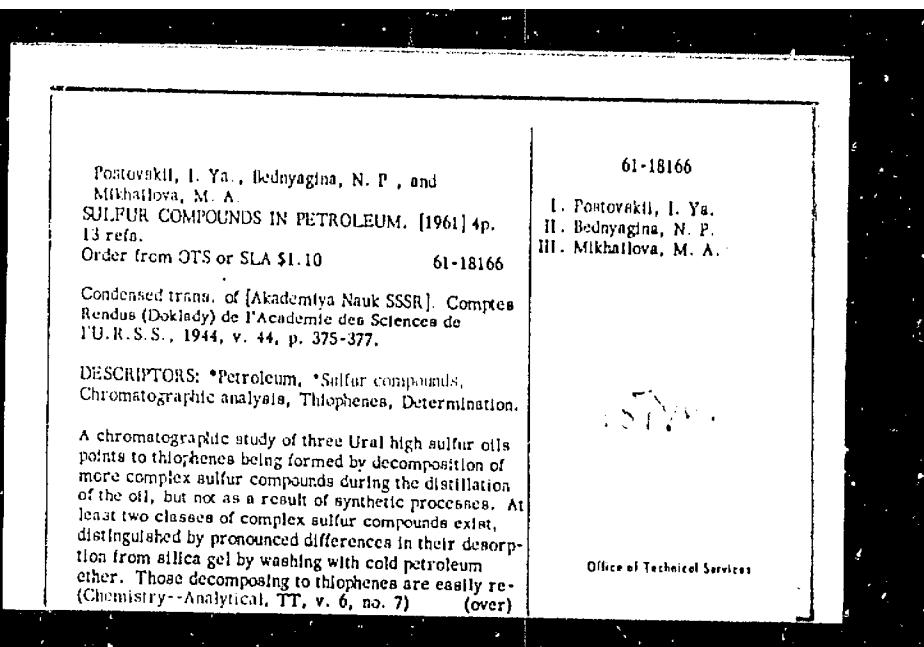
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIV, No 6,  
1944, pp 265-269.

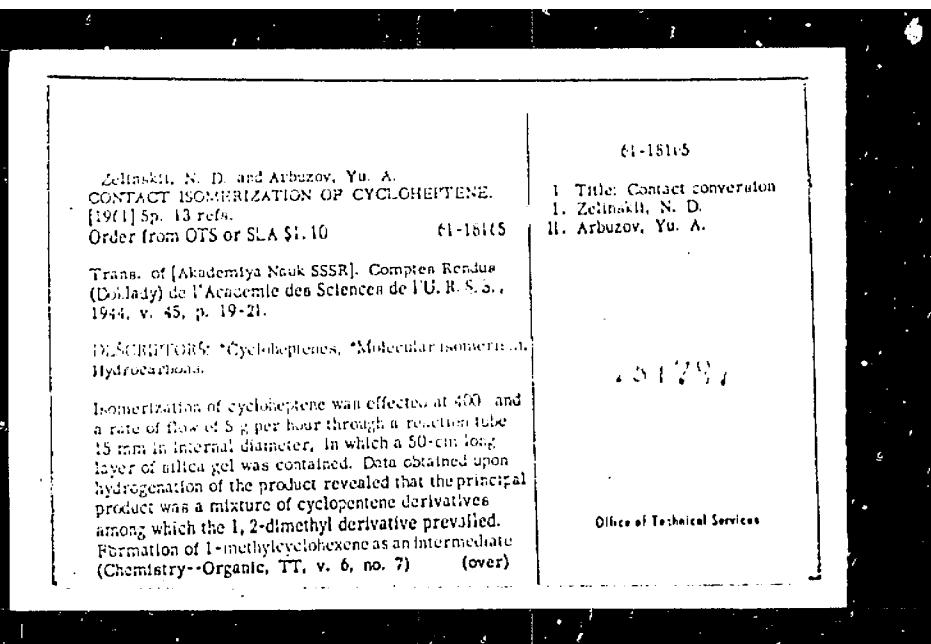
JPRS 7510

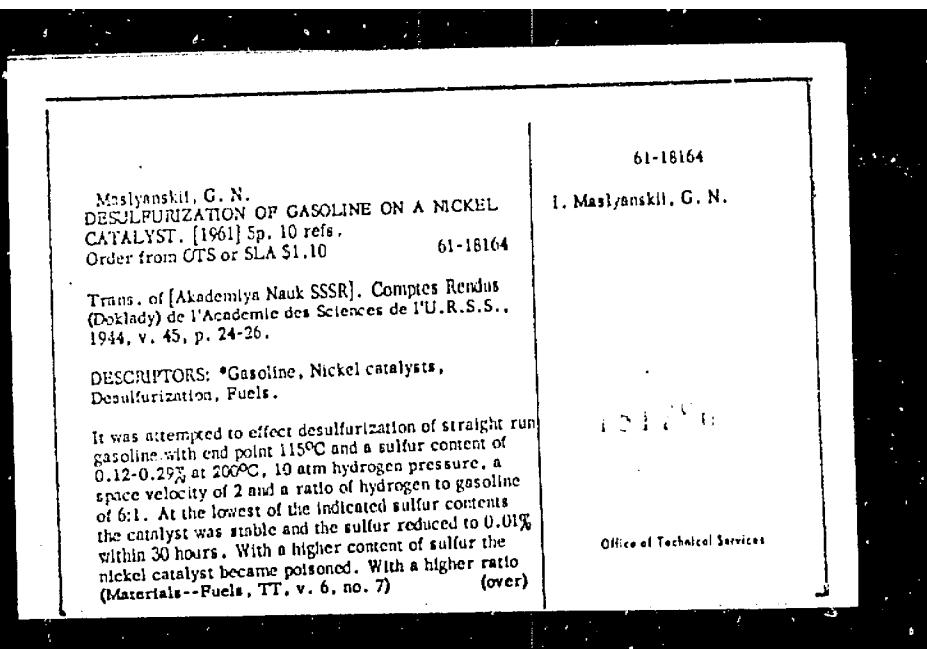
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Basic Principles for the Theoretical Calculation  
of the Work of an Explosion, by A. F. Belyayev,  
5 pp.

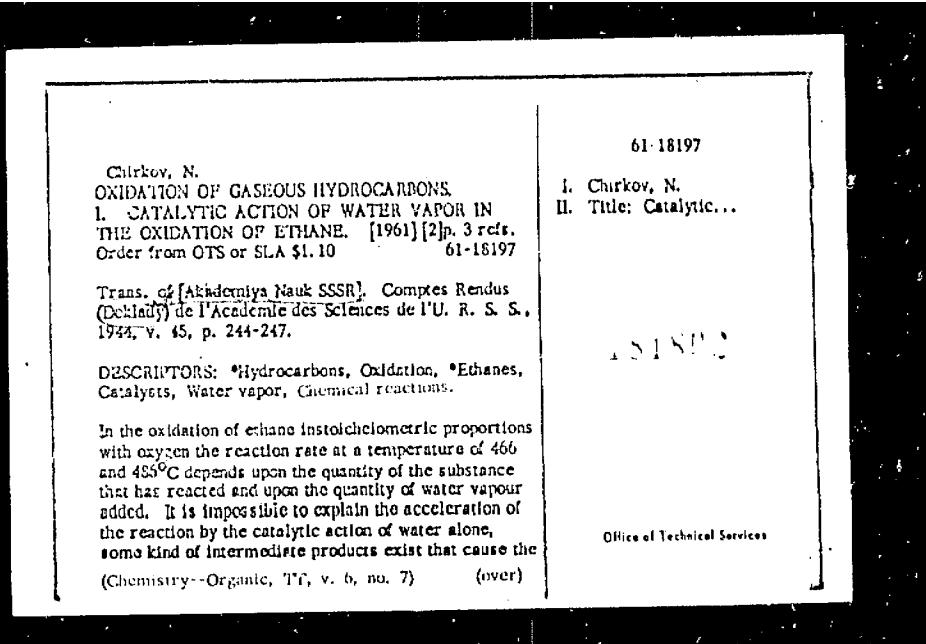
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLV, No 4,  
1944, p. pp 164-166.

JPRS 7310

Sci - Chem

Jan 61

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Pigulevskii, V. V. and Il'ina, S. I.  
RATE OF ABSORPTION OF ETHYLENE BY SULFURIC ACID AT AN ELEVATED TEMPERATURE  
AND CONSTANT ABSORPTION SURFACE. [1961] 2p.  
2 refs.

Order from OTS or SLA \$1.10 61-18196

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus (Doklady) de l'Academie des Sciences de l'U.R.S.S.,  
1961, v. 45, p. 331-333.

DESCRIPTORS: \*Sulfuric acid, \*Ethylenes, Absorption.

Experiments are reported showing that at constant absorption surface the quantity of ethylene absorbed per unit time by 95 per cent sulfuric acid at 70°C is proportional to its partial pressure within 30 and 600 mm at a given degree of saturation of the acid. At a constant contact period the ratio of the initial partial pressure of ethylene to the final and, consequently, the extent to which ethylene reacts, remains constant and (Chemistry-Physical, TT, v. 6, no. 7) (over)

61-18196

I. Pigulevskii, V. V.  
H. Il'ina, S. I.

Office of Technical Services

(HY-1847).

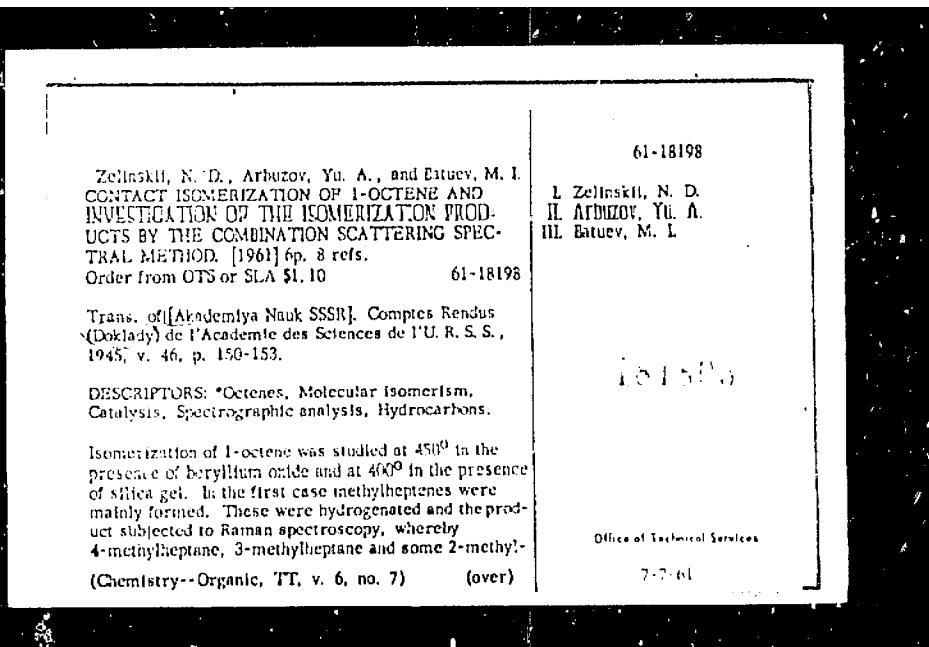
Explosive Properties of 'Gasless' Systems, by ~~SEMINAROPO~~  
A. F. Belyayev, A. B. Halbandyan, 9 pp.

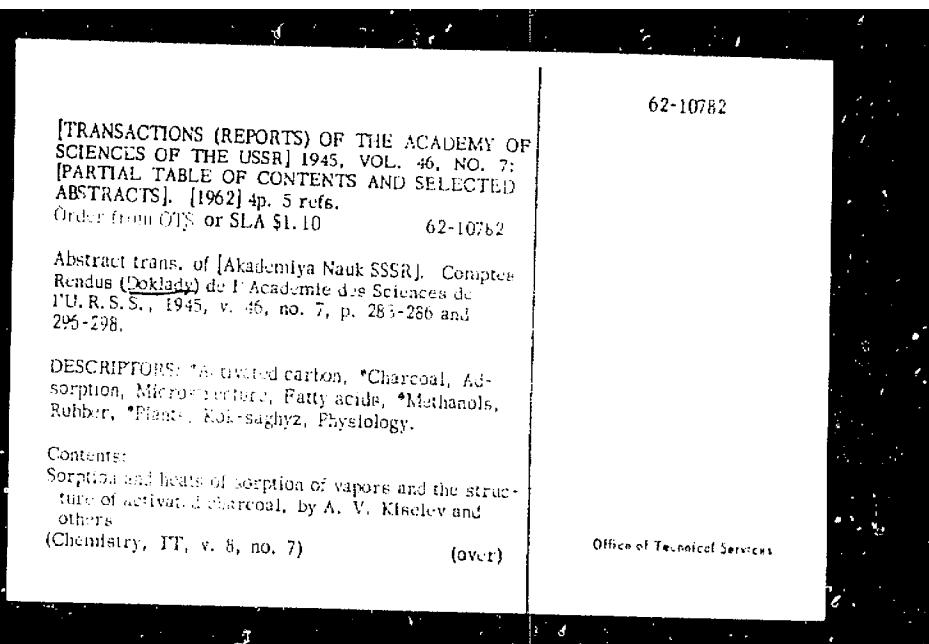
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1945, pp 113-116.

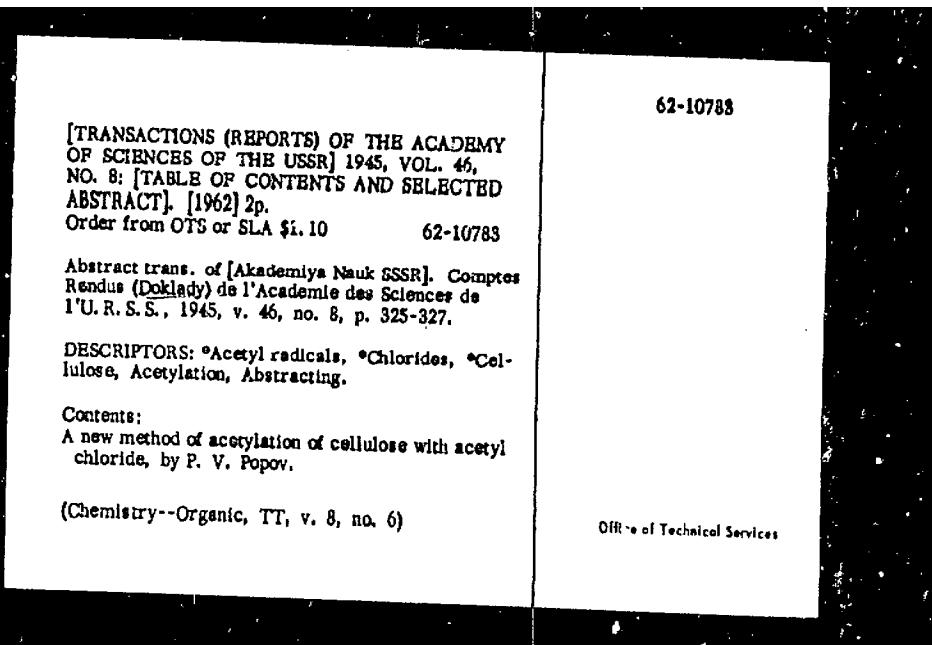
JPRS 7522

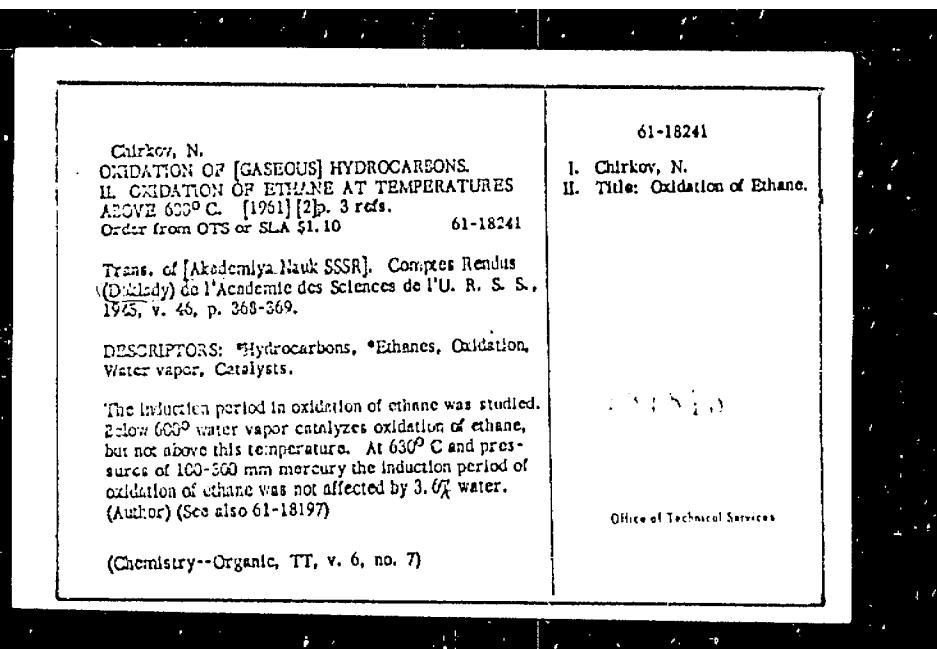
Sci - Chem  
24 Jan 61

137,684







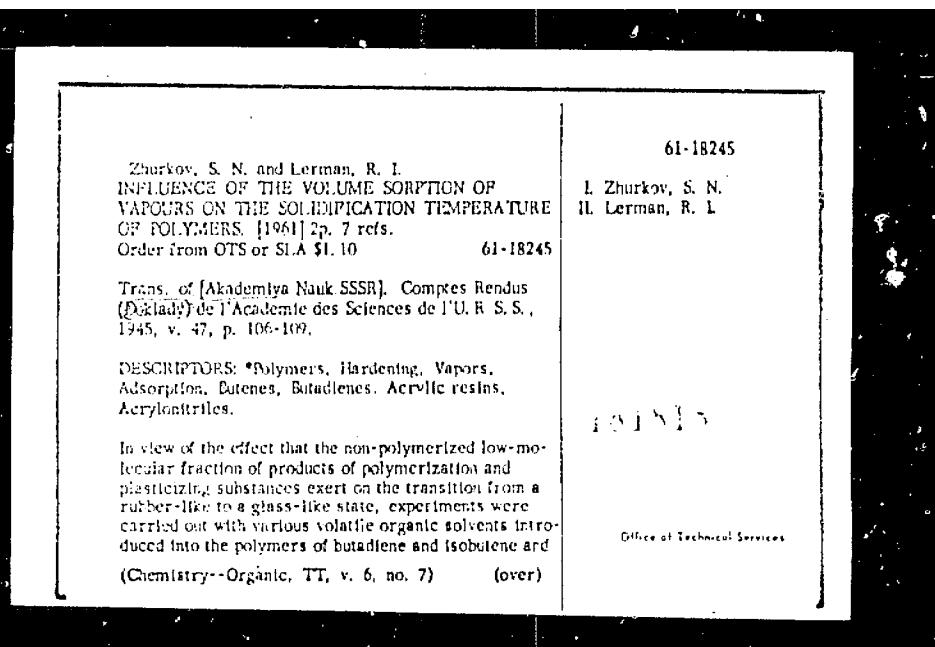


Investigation of the Detonation of Condensed Explosives,  
by L. D. Landau, K. P. Stanyukovich, 7 pp.  
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVI, No 9,  
1945, pp 399-402. 9692121  
FTD-TT-63-1112

Sci - Phys  
Apr 64

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| [TRANSACTIONS (REPORTS) OF THE ACADEMY OF SCIENCES OF THE USSR] 1945, VOL. 47, NO. 1: [TABLE OF CONTENTS AND SELECTED ABSTRACTS]. [1962] 2p.<br>Order from OTS or SLA \$1.10 | 62-10784<br><br>Abstract trans. of [Akademiya Nauk SSSR], Comptes Rendus ( <u>Doklady</u> ) de l'Academie des Sciences de l'U.R.S.S., 1945, v. 47, no. 1, p. 28-30 and 43-48.<br><br>DESCRIPTORS: *Geophysical prospecting, Rock, Thermal conductivity, *Manganese, Ores, Deposits, *Iron, *Nickel, *Cobalt, Abstracting<br><br>Contents:<br>Thermal method of prospecting vs. gravitational and electrical methods, by S. S. Kovner and B. L. Shneerson<br>(Earth Sciences--Geology, TT, v. 8, no. 1) (over) | Office of Technical Services |
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Yurzhenko, A. and Kolechkova, M.  
ON THE TOPOGRAPHY OF THE POLYMERIZATION  
OF HYDROCARBONS IN EMULSIONS. [1961] 2p.  
13 refs.

Order from OTS or SLA \$1.10 61-18244

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus  
(Akademye l'Academie des Sciences de l'U. R. S. S.,  
1961, v. 27, p. 348-350.

DESCRIPTORS: Hydrocarbons, \*Polymerization,  
Butadienes, Colloids.

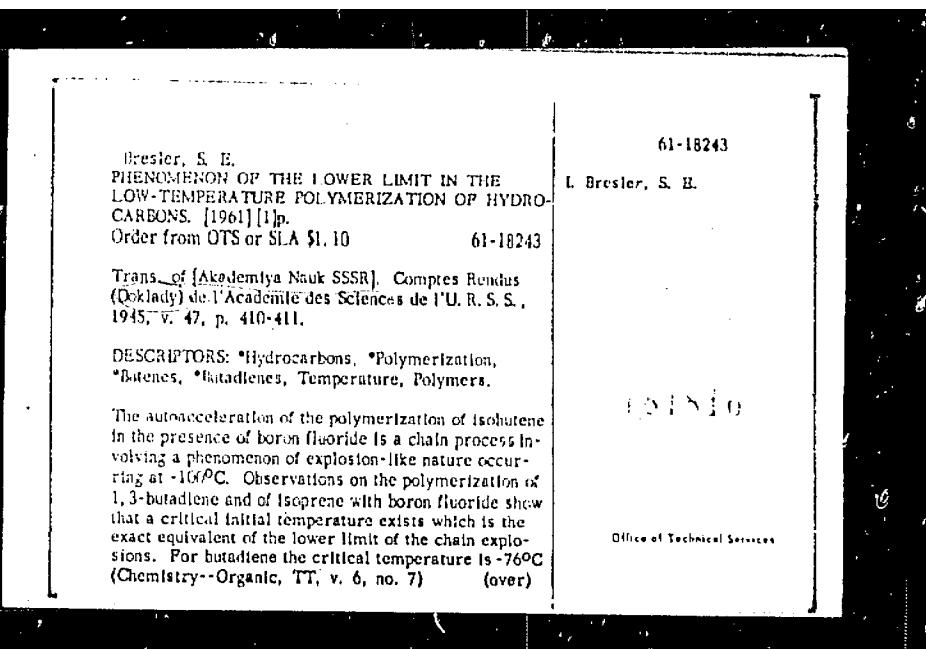
A series of polymerization reactions were carried out  
with 1, 3-butadiene in the presence of various emulsi-  
fying agents and diazocinobenzene as a catalyst. The  
rate of polymerization increased considerably when the  
concentration of the emulsifying agent increased, even  
within the concentration limits within which the surface  
activity of the latter remains practically constant. The

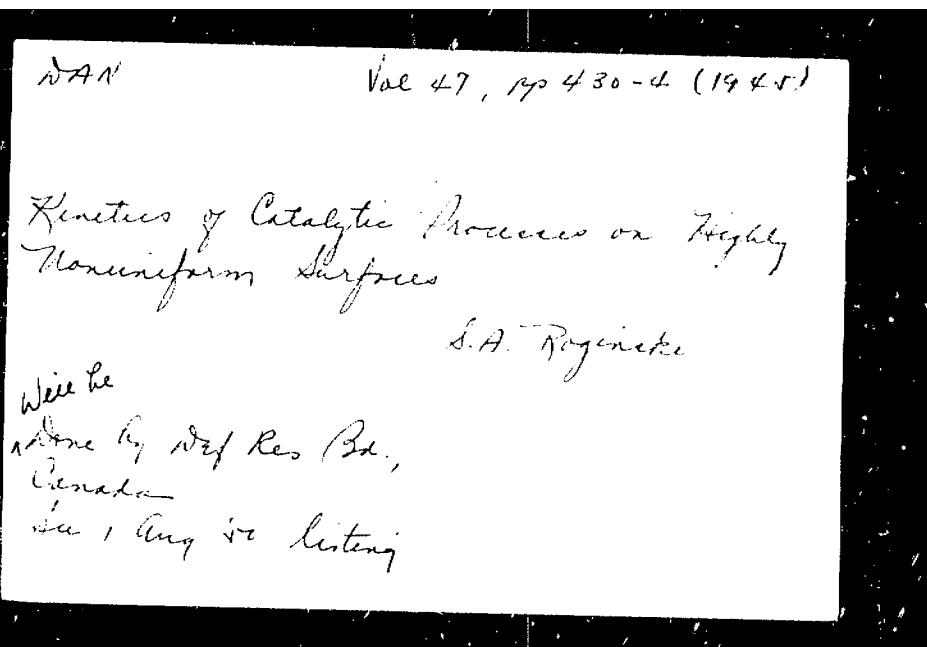
(Chemistry--Organic, TT, v. 6, no. 7) (over)

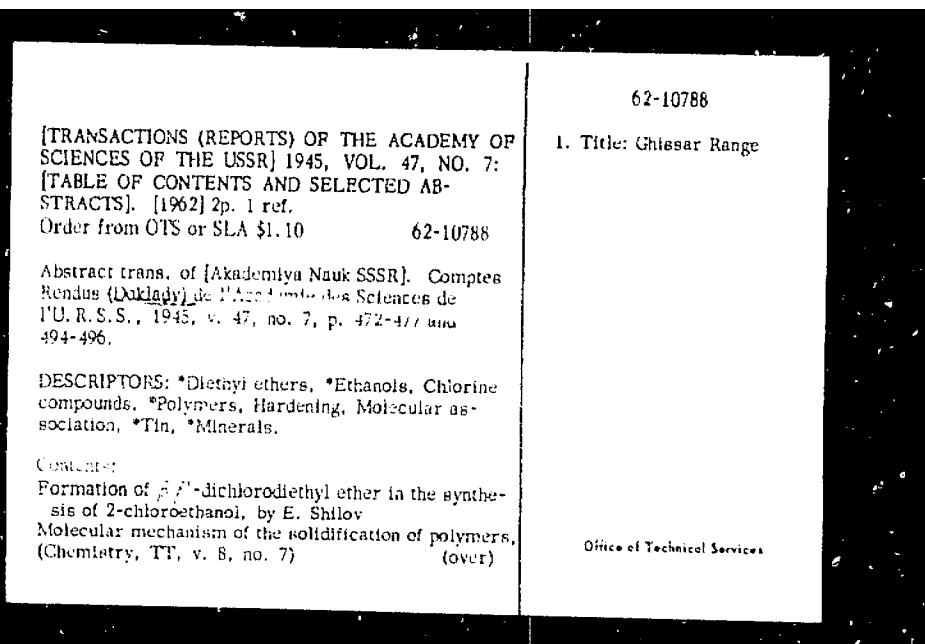
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I. Yurzhenko, A.  
II. Kolechkova, M.

Office of Technical Services







S-178/60

(NY-4834)

A Contribution to the Theory of the Detonation  
Spin, by K. P. Shchelkin, 7 pp.

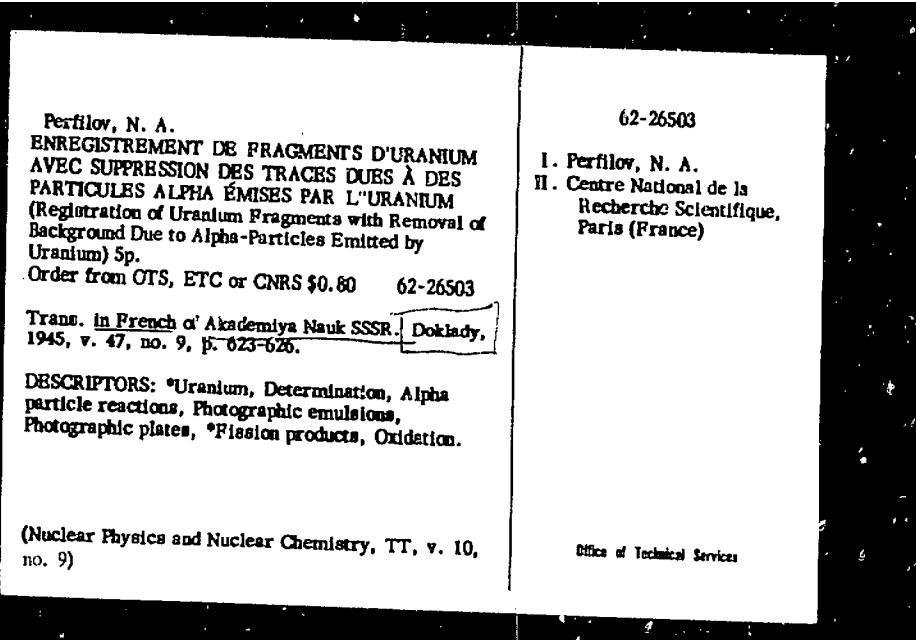
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVII, No 7,  
1945, pp 501-503.

JPRS 5824

Sci. - Chem

Oct 60

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"Characteristics of the Spreading of  
Atlantic Waters in the Polar Basin,"  
V. B. Shokman

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Ivanov, I. I. and Savinova, V. K.  
DECAHYDRONAPHTHALENE PEROXIDE. [1962] 5p.  
Order from ATS \$8.25 ATS-27NSR

Trans. of Akademiya Nauk SSSR. Doklady, 1945, v. 48,  
no. 1, p. 32-35.

DESCRIPTORS: \*Peroxides, \*Naphthalenes, \*Hydrogen.

DESCRIPTORS: \*Peroxides, \*Naphthalenes, \*Hydrogen. East Orange, N. J.

6-17304

I. Title: Decalin  
I. Ivanov, K. I.  
II. Savinova, V. K.  
II. ATS-27N58R  
V. Associated Technical  
Services, Inc.,  
East Orange, N. J.

(Chemistry, TT, v. 8, no. 4)

**Office of Technical Services**

Euphausiids of the Sea of Japan Feeding on the  
Copepoda, by L. A. Ponomareva.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVIII,  
No 1, 1954, pp 153-154.

Dept of Interior  
GL E78 No 40

Sci - Biol

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(SF-1157)

Calculation of the Characteristics of a Detonation Wave, Stationarily Propagated in Condensed Explosives and the Equation of State of the Explosion Products, by S. B. Ratner, 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLVIII, No 3,  
1945, pp 199-201.

JPRS 4186

134, 332

Sci - Phys  
Dec 60

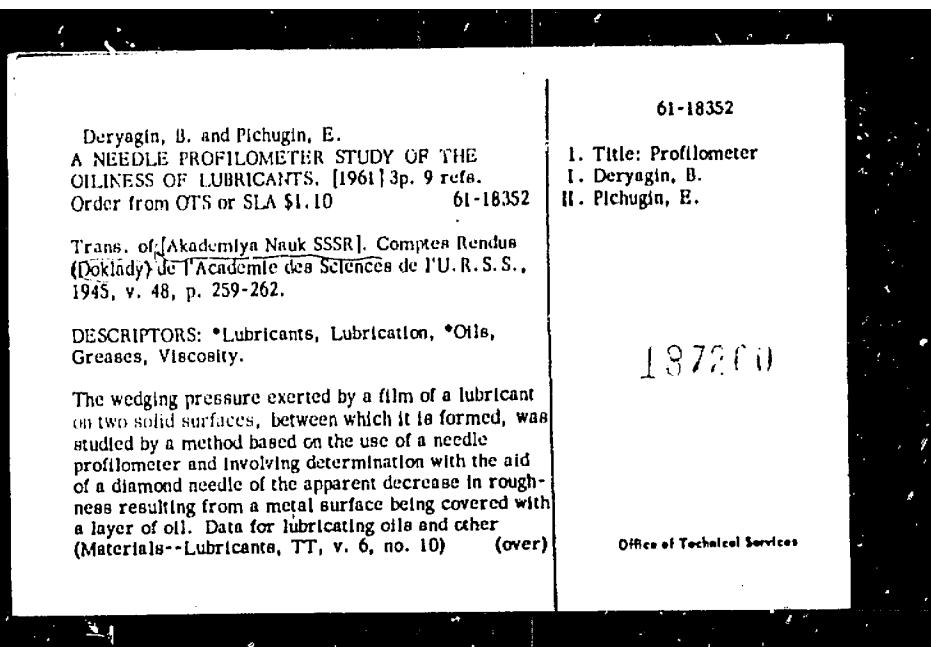
Spectroscopic Determination of Carbon in Irons and  
in Steels, by O. V. Blank, and N. S. Sventitskiy.

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pp 269-272.

Bratcher Tr No 2468

Scientific - Min/Metals \$2.40

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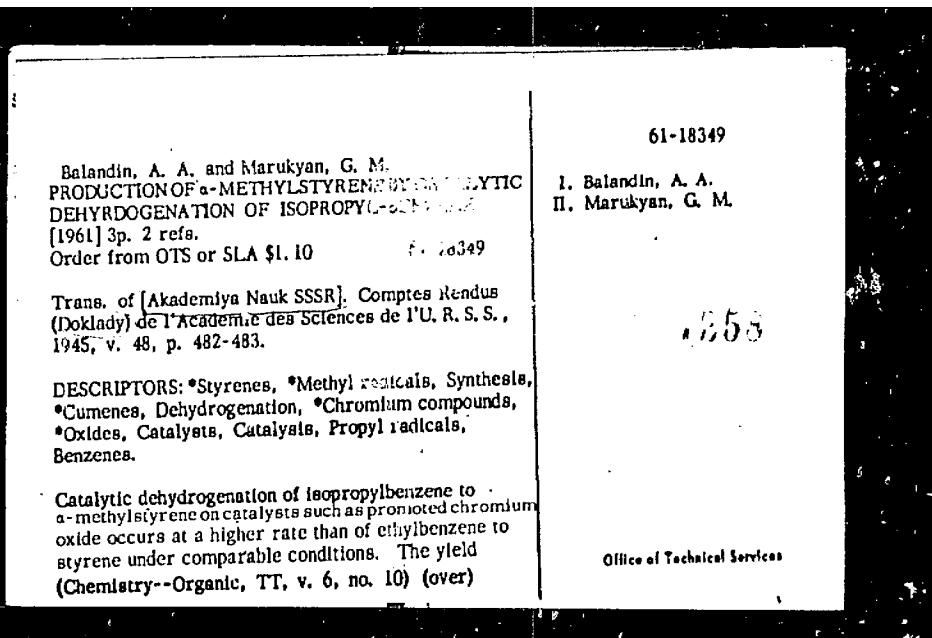
The Limit Diameter of a Charge of Ammonium Nitrate, by A. F. Belayev, Y. B. Chariton, p. 9.  
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No 4, 1945.

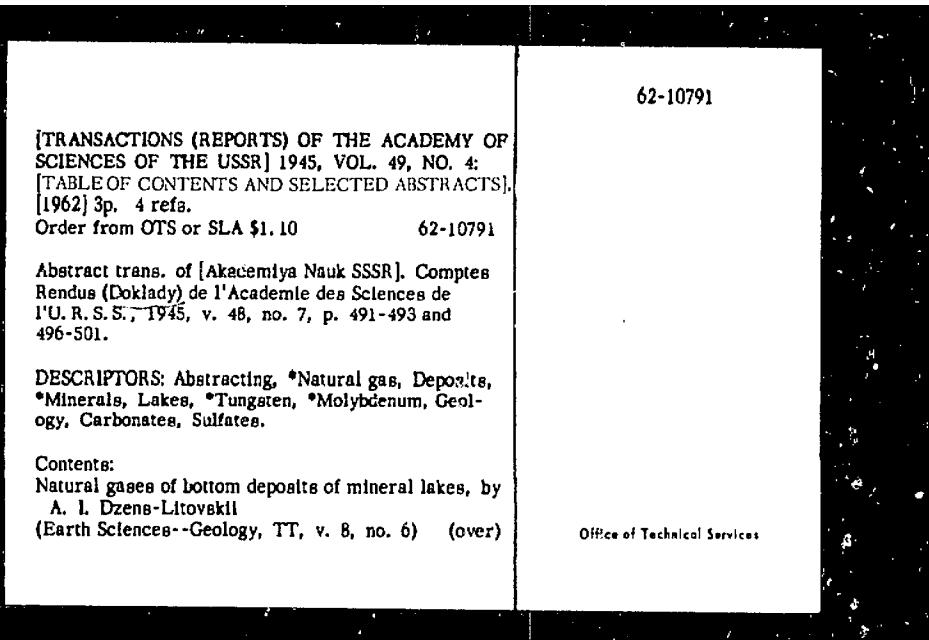
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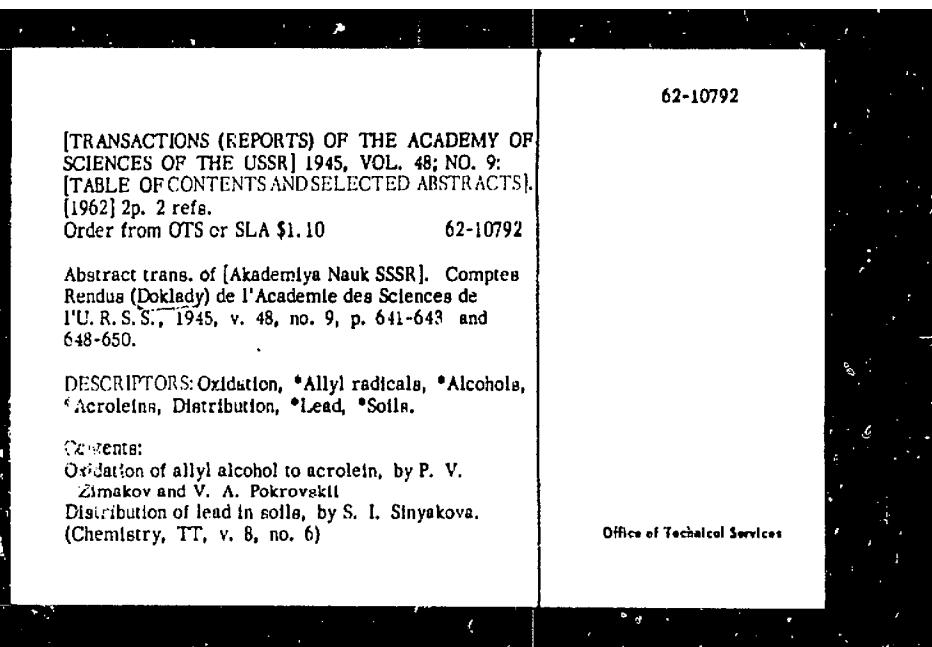
Aug 60

121,702





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| <p>Andreev, K. K. and Bakkev, A. P.<br/>AU SUJET DE LA RELATION EXISTANTE ENTRE LA<br/>VITESSE DE COMBUSTION DES POUDRES SANS<br/>PUMÉE ET LA PRESSION (The Dependence of the<br/>Burning Velocity of Smokeless Powders on the Pressure)<br/>Sp. 5 refs.<br/>Order from OTS, ETC or CNRS \$0.80 62-26505<br/><br/>Trans. [in French of Akademiya Nauk SSSR.] Doklady,<br/>1945, v. 48, p. 567-570.</p> <p>DESCRIPTORS: *Smokeless propellants, *Combustion,<br/>Velocity, Pressure, Nitroglycerin.</p> <p>(Materials--Fuels, TT, v. 10, no. 5)</p> | <p>62-26505</p> <p>I. Andreev, K. K.<br/>II. Bakkev, A. P.<br/>III. Centre National de la<br/>Recherche Scientifique,<br/>Paris (France)</p> <p>Office of Technical Services</p> |
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DAN, Vol 9, 1945

"Some Problems of Plastic States of  
Plane Stress"

Done in D. G. by A.C.S.I.L. (Admiralty)

49/4659

P 21548T

(NY-4847).

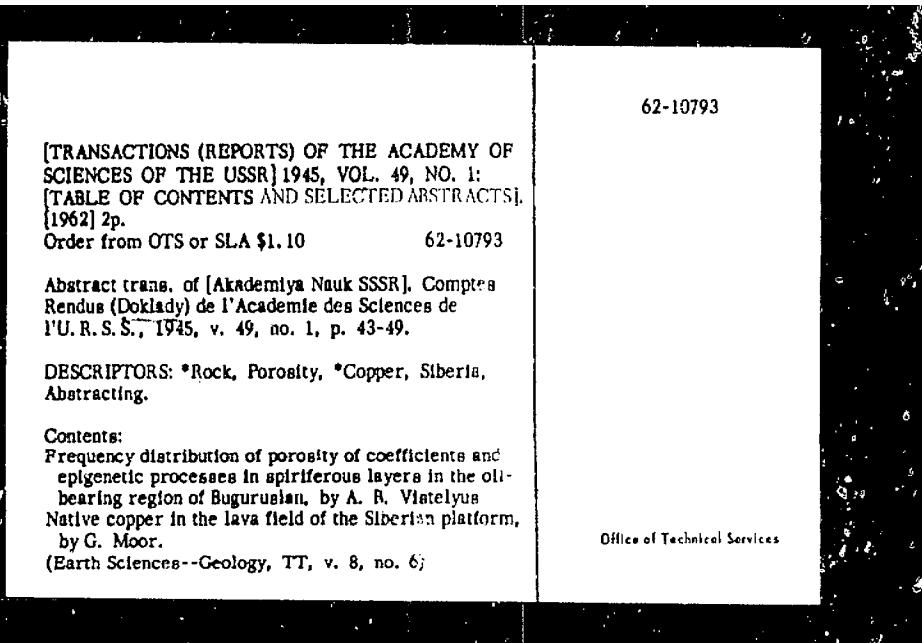
Disturbance of the Ignition Limits of Carbon Monoxide With Small Additions of Hydrogen, by V. N. Kondrat'yev, 4 pp.

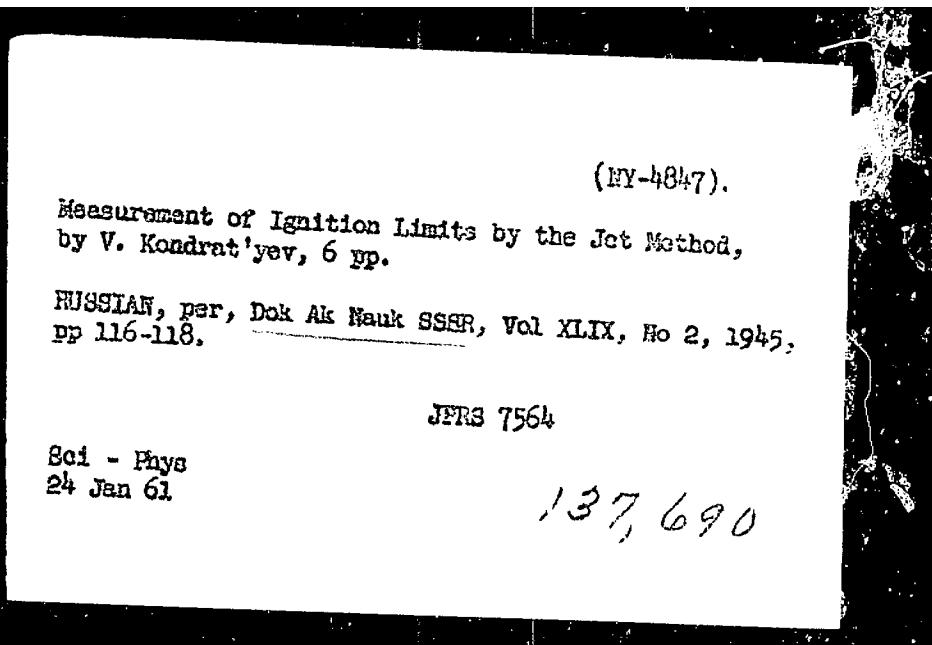
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIX, No 1,  
1945, pp 38-40.

JPRS 7563

USSR  
Sci - Chem  
24 Jan 61

137,691





CR ACAD SCI Vol XLIX, No 3

1945

3 pp

"Effect of Radioactive Elements Upon Development of  
Root-Nodule Bacteria, and upon Their Assimilation of  
Atmospheric Nitrogen"

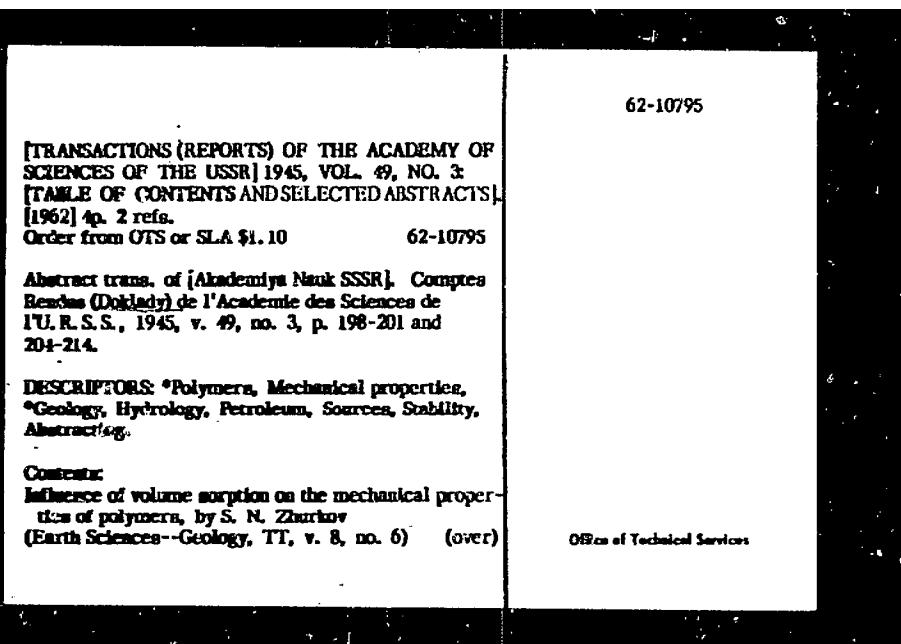
A. A. Drobkov

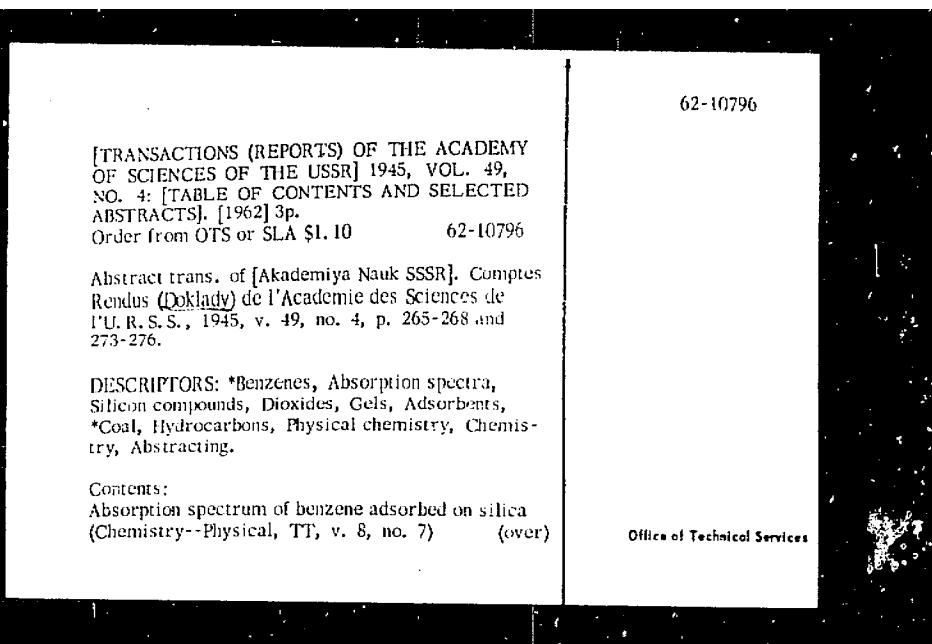
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T.C. 1 Dec 1947  
OO-W 167

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Modifications by Weathering in the Composition  
Structure and Properties of the Lower Cretaceous  
Gly. by N. F. Tchourinov, 9 pp.

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No 5, 1945, p 364-368.

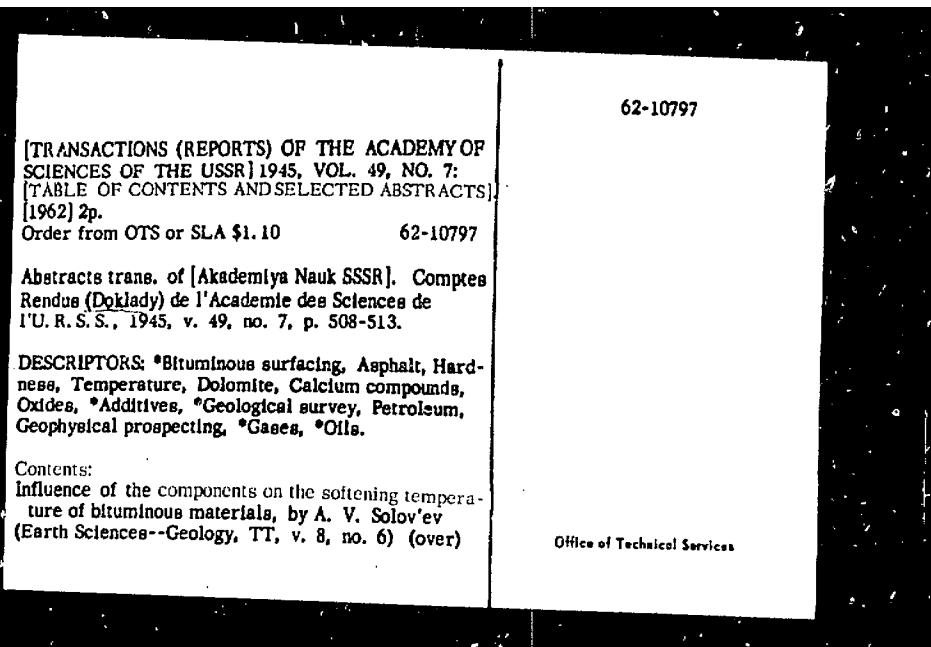
SLA n 1621

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Jul 58

68, 214

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| <p>Luchin, S. M.<br/>ANALYSIS OF COMPLEX GAS MIXTURES WITH<br/>M. L. VEINGEROV'S OPTIC-ACOUSTICAL GAS<br/>ANALYZER. [1961] [3]p. 6 refs.<br/>Order from OTS or SLA \$1.10</p> <p>Trans. of Akademiya Nauk SSSR. Comptes Rendus<br/>(Doklady) de l'Academie des Sciences de l'U.R.S.S.,<br/>1961, v. 49, p. 418-420.</p> <p>DESCRIPTORS: *Gases, Mixtures, *Optical analysis,<br/>*Acoustics, Analysis, Sound.</p> <p>(Physics, TT, v. 7, no. 7)</p> | <p>61-20134</p> <p>1. Title: Veingerov's<br/>analyzer</p> <p>1. Luchin, S. M</p> <p>Office of Technical Services</p> |
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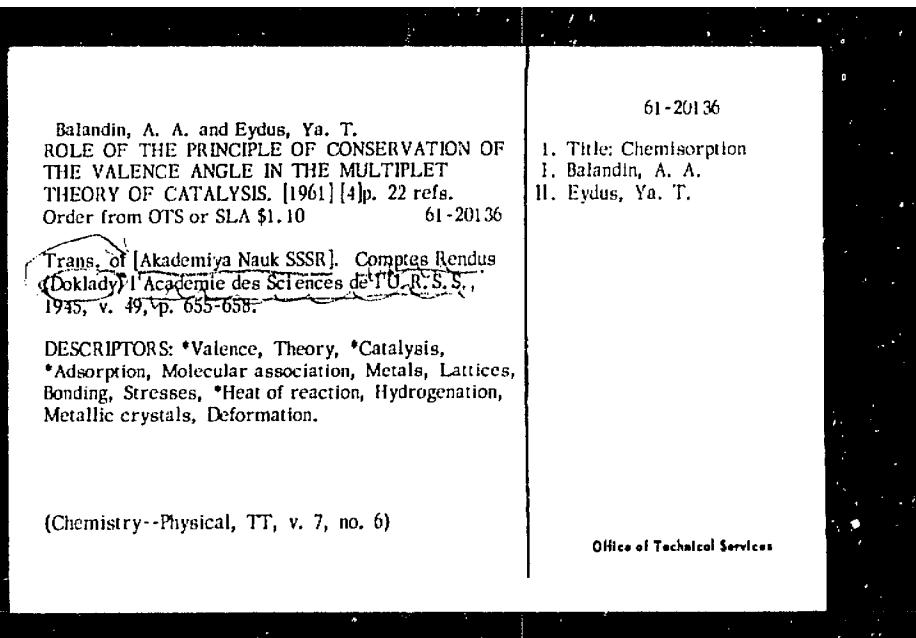
Effect of Promoters in Catalytic Dehydrogenation  
of Alcohols I To Esters as Related to Their  
Position in the Periodic Table, by S. L. LeL'chuk,  
4 pp.

EMERSEY RUSSIAN, per, Dok Ak Nauk SSSR, Vol XLIX,  
1945, pp 652-~~653~~ 654.

SLA 61-20135

Sci  
Mar 62  
Vol VII, No 3

188, 106



Effect of Surface-Active Substances on the  
Coagulation of Aerosols, by I. S. Artemov.

RUSSIAN, per, Dok Ak Nauk ESSR, Vol L, 1945.

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Scientific - Chemistry, aerosols,  
May CTS

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On an Interpretation of a Space with Degenerate Metric, by A. Norden.  
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 50, 1945,  
pp 57-60.  
\*AFCRL

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Theory of the Ideal Cavitating Propeller, by V. M.  
Lavrent'ev. UNCLASSIFIED

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pp 89-93.

Navy Nr 1769/DMS 279

Sci - Eng

Jul 58

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Determination of the Solubility of Calcite in Aqueous  
Solutions, by E. B. Shternina

Full translation.

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AEC Tr 1607

Scientific - Chemistry Jun 53 CTS/DEX

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SLA 59-19070 3086

(NY-4847)

Detonation and Explosive Combustion of Explosives,  
by A. Ya. Apin, 10 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol L, 1945,  
pp 285-288.

JPRS 7523

Sci - Chem

Jan 61

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Vol 4, pp 289-91 (1945)

Effect of Surface - Active Substances on  
the Coagulation of Aereols

J. S. Artemov

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Also serial @ Sci Mus. Lit - Br. Brit. # 10/1870

(NY-4847).

The Relationship of the Maximum Density of the Explosives With the Value of the Charge Diameter,  
by A. F. Balyayev, A. E. Balyayeva, 7 pp.

RUSSIAN, par, Dok Ak Nauk SSSR, Vol L, 1945,  
pp 295-297.

JPRS 7524

Sci - Phys  
24 Jan 61

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(NY-4847)

*Effect of the Casing*  
The Effect of the Charge Casing on the Stability  
to Detonation and Its Action, by A. F. Belyayev,  
A. E. Belyayeva, 8 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol L, 1945,  
pp 299-301.

JPS 7525

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Jan 61

138, 705

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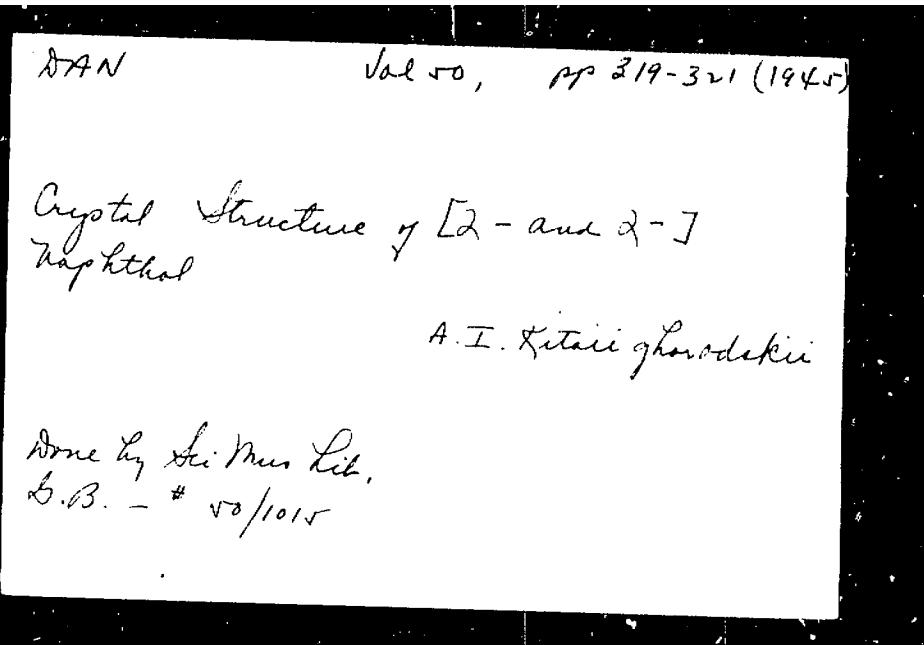
The Mechanism of the Genesis of Detonation of Explosives Upon Impact, by A. F. Belyayev, V. K. Bobolev, and Z. I. Natner, 6 pp.

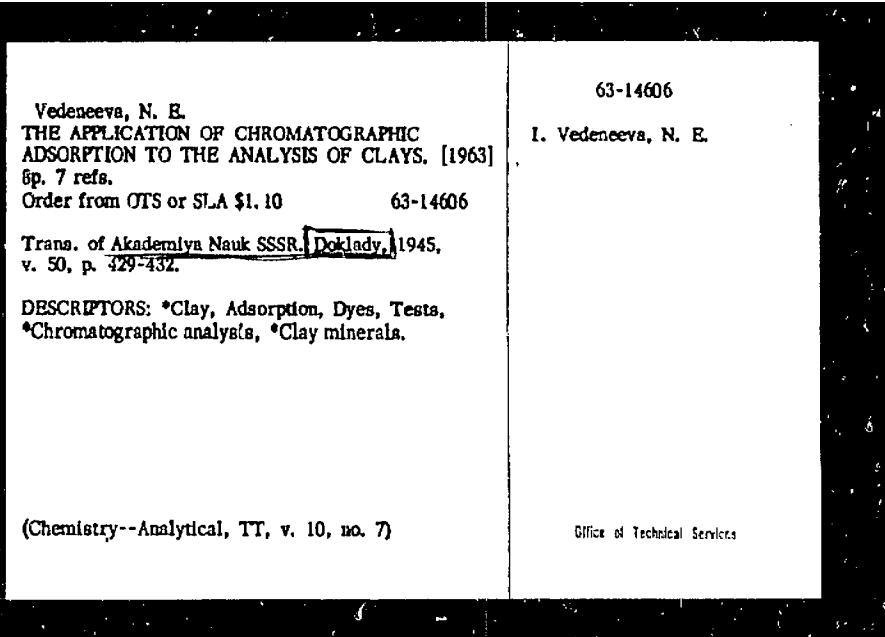
RUSSIAN, per, Dok Ak Nauk SSSR, Vol. L, 1945, pp 303-305.

JPRS 7526

Sci - Nuc Phys  
24 Jan 61

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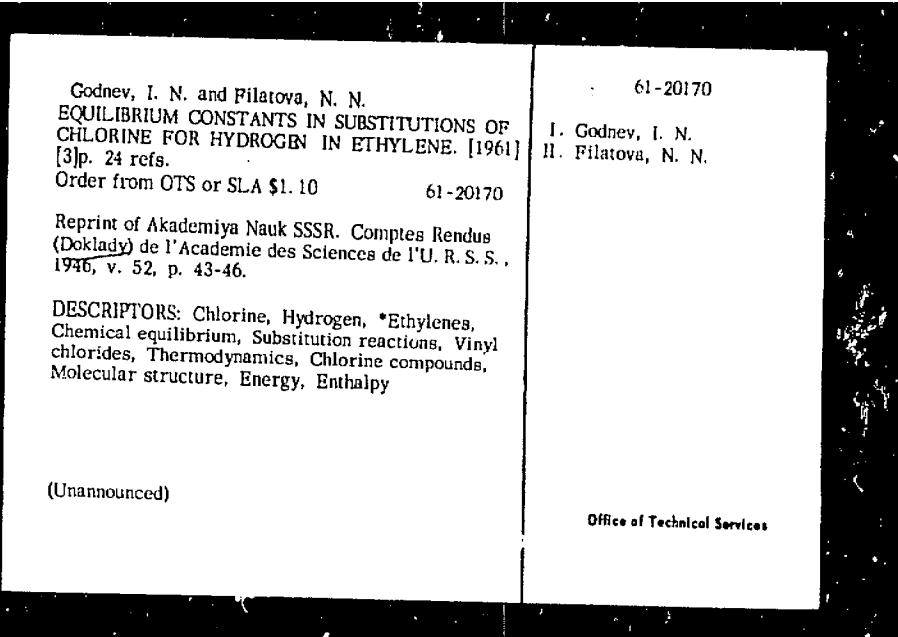
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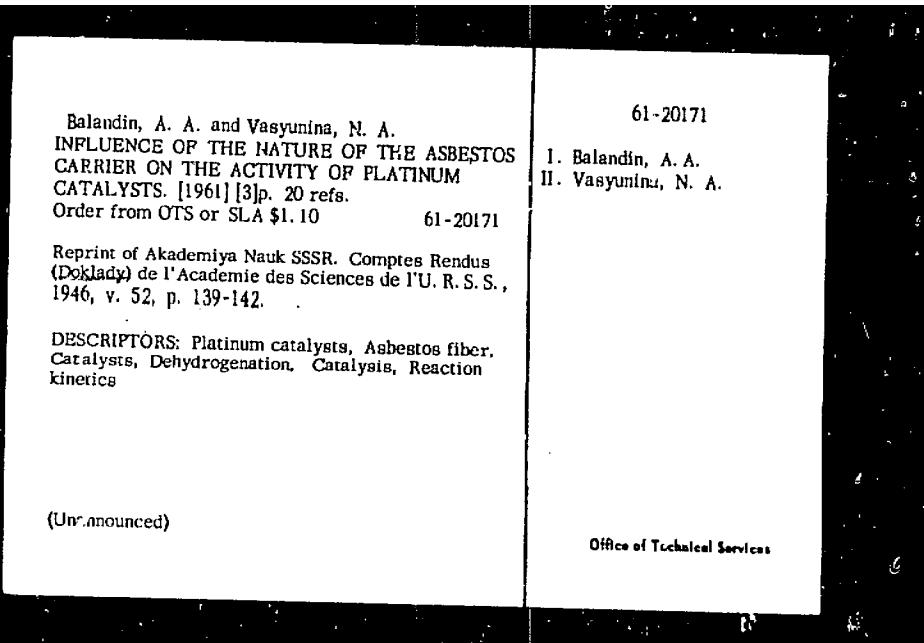
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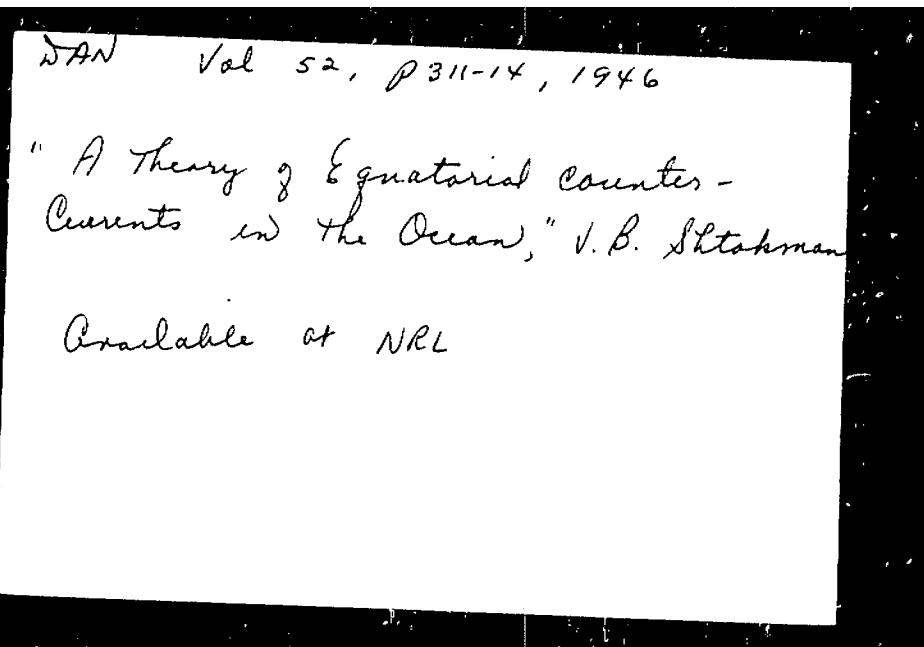
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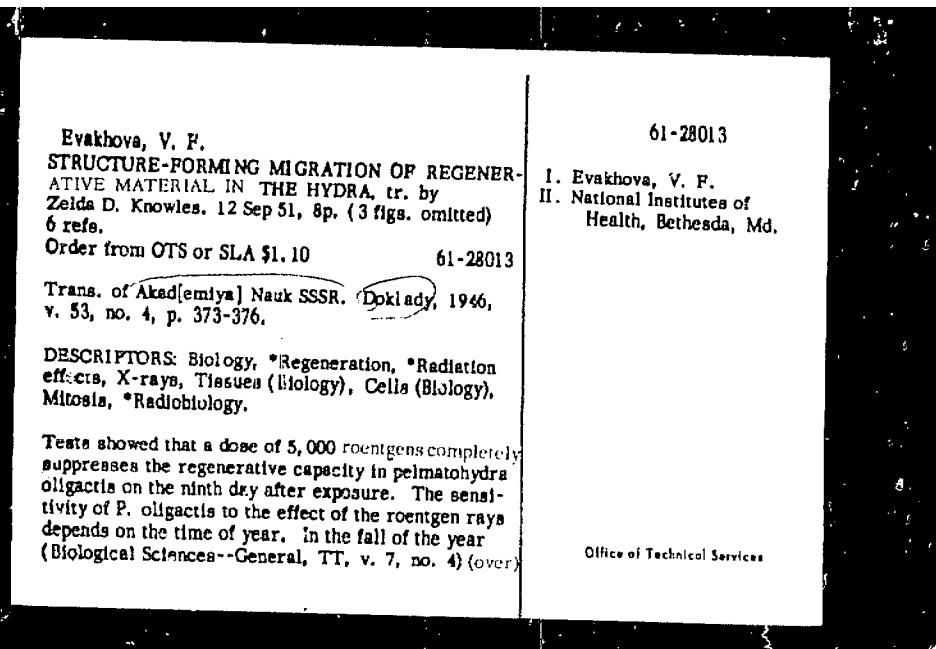
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